## pa1030: Box multiplication of linear binomials (v8)
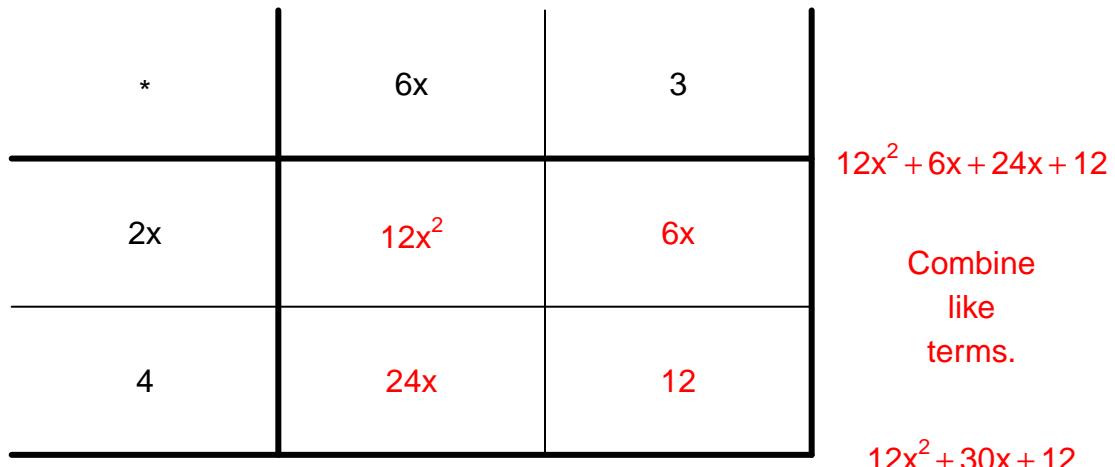
### Example

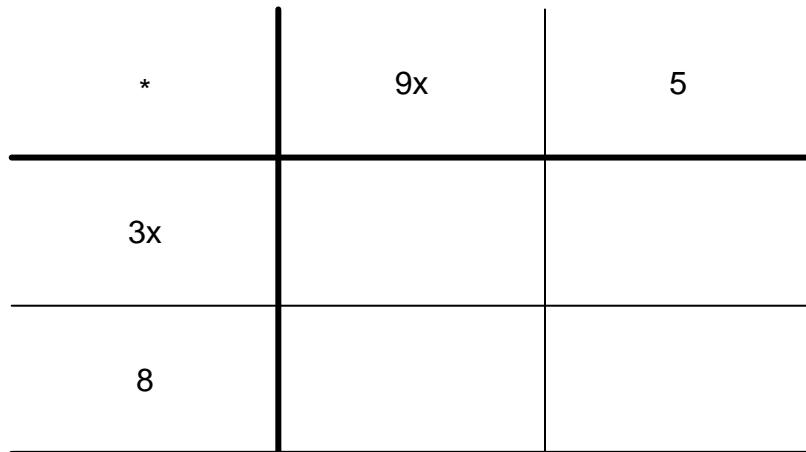Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

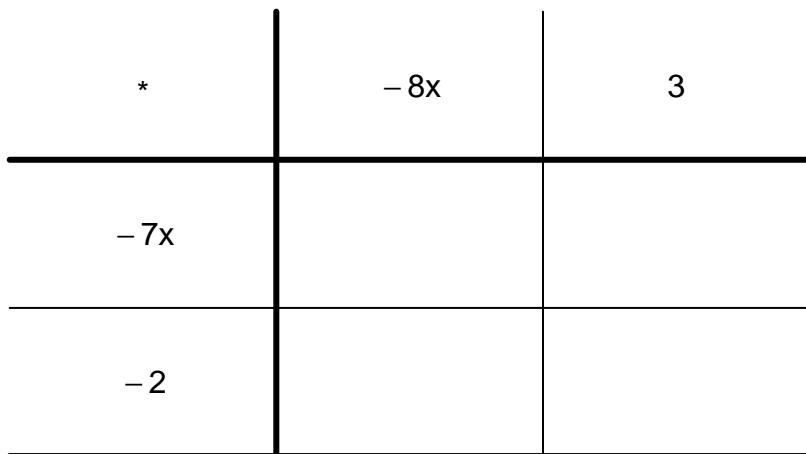| * | 6x | 3 |
|---|---|---|
| 2x | $12x^2$ | 6x |
| 4 | 24x | 12 |

$12x^2 + 6x + 24x + 12$

Combine like terms.

$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

### Question 1

Use the box method to multiply $(9x + 5)$ and $(3x + 8)$.

| * | 9x | 5 |
|---|---|---|
| 3x | | |
| 8 | | |

ANSWER:

## Question 2
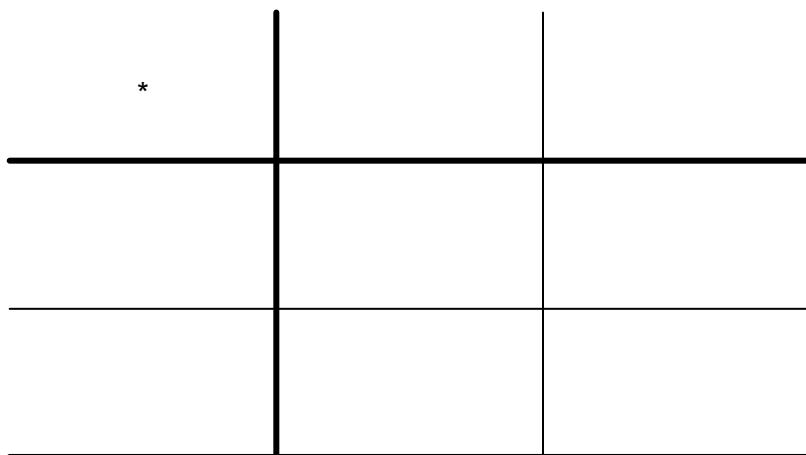
Use the box method to multiply $(-8x + 3)$ and $(-7x - 2)$.

| * | − 8x | 3 |
|---|------|---|
| − 7x | | |
| − 2 | | |

ANSWER:

## Question 3

Use the box method to multiply $(7x + 9)$ and $(5x - 4)$.

| * | | |
|---|---|---|
| | | |
| | | |

ANSWER: